## ISSUE SLIP STAPLE AREA (for additional cross references)

|                       |      |          |        | DATE  |
|-----------------------|------|----------|--------|-------|
| POSITION              | *    | INITIALS | ID NO. | DATE  |
|                       |      |          |        |       |
| FEE DETERMINATION     |      |          |        |       |
| O.I.P.E. CLASSIFIER   |      |          |        |       |
| FORMALITY REVIEW      |      |          |        |       |
| RESPONSE FORMALITY RE | VIEW | Or       |        | @ 320 |

## INDEX OF CLAIMS

| _ | Rejected Allowed (Through numeral) Canceled | N        |
|---|---|----------|
| - | (Through numeral) Canceled Restricted       | Objected |

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|--------------|----------|-----|----------|--------------|----------|--------------|--------------|--------------|--------------------|--------------|----------|----------|----------|------------|----------|----------|----------|----------|--|----------|--|----------------|----------|--|----------|----------|------------|-----------|--|-------------|---------|--|----------|------------|----------|----------|----------|
|              | . ,      |     |          |              |          | •            |              |              |                    |              |          |          |          |            |          |          |          |          |  | _        |  |                |          | 7  | ٢        | Clair    |            |           |  |             | Da      | ite  |          |            |          |          | 1        |
| Clai         | m        | _   |          | _            |          | Dat          | e            |              |                    |              |          |          | Cla      | im         |          | _        | _        |          | ate  | Т        | Т  | $\top$         | Т        | $\dashv$   | ł        |          | $\neg$     | T         |  |             |         | Г  | Γ        |            | П        | $\neg$   |          |
|              | $\neg$   | 2   | 丁        | 3            | 91       |              |              |              |                    |              | İ        |          |          | la!        |          | -        |          |          | -  | l        |  | 1              |          | ١  | -        | - l      | Original   |           |  |             |         | 1  | 1        | '          |          | . 1      |          |
| =            | Original | 30  | ļ,       | 2            | 23       |              |              |              |                    |              |          | ļ        | Final    | 9 Original | - 1      | - 1      | -        | -        | - 1  | 1        |  | 1              | -        | İ  | - [      | Final    | õ          | _         | ╽_   | _           | L.      | ↓_   | 1        | ↓_         | Н        | $\dashv$ |          |
| Final        | یاھ      |     |          | 13<br>23     | 63       |              | <u> </u>     | <u> </u>     | ↓_                 | -            | ╀        | 1        | 1        | 51         | -        | +        | +        | +        | _  | +        | 1  | $\neg$         | 1        | 7  |          | 1        | 101        | _         | 1_   |             | L-      | ╄-   | ╁-       | ↓_         | $\sqcup$ | $\vdash$ |          |
|              | U        | y   | <u> </u> | 2            | <b>✓</b> |              | ├-           | ├-           | ┼-                 | ╀            | ╂╌       | -        | -        | 52         | -+       | +        | 十        | 7        | $\top$   | +        |  |                | I        | $\Box$   |          |          | 102        | 4         | ↓_   | _           | L       | ╄  | ╀        | +-         | ╁┤       | $\vdash$ |          |
| 2            | 2        | オフィ | ام       | $\mathbb{H}$ | Н        |              | ├-           | ├-           | ┼-                 | ╁            | ╀        | 1        | $\vdash$ | 53         | -        | 十        | +        | 7        | 7  | 1        | 1  |                |          |  |          | ,        | 103        | $\perp$   | ↓_   | ┞-          | ├-      | ╁  | ╀        | ┼          | 1-       | $\vdash$ |          |
|              | 3        | 1   | V        | 4            | 1        | <u> </u>     | 1 -          | ┼-           | ╀                  | ╁            | ╁        | -        | -        | 54         | -        | 寸        | 1        | 7        |  |          |  |                | I        | $\Box$   |          |          | 104        | -         | +-   | ├-          | ╀       | +  | 十        | ╁          | ╁        | $\vdash$ |          |
| 9            | 4        | 007 | 힞        | +            | +        | -            | ╁            | ╀╌           | +-                 | ╁            | ╁╴       | 1        | $\vdash$ | 55         |          | 7        |          |          |  |          | $\perp$  |                | _        | _  |          |          | 105        | +         | ╁╌   | ╁           | ╁╴      | ╁  | 十        | +          | +-       | ╁╌┤      | : .      |
| 3            | 1,5      | 7   |          | ╁            | Н        | -            | ╁╌           | 十            | +-                 | +            | ╁╴       | 1        | $\vdash$ | 56         |          | $\Box$   |          |          | _  | _        | _  | _              | 4        | _  |          |          | 106<br>107 | +-        | ╁╴   | ╁           | ╁       | ╁  | 十        | +-         | +-       | 1        |          |
| TE.          | 9        | *   | 7        | +            | H        | -            | ╁╌           | +-           | ╅                  | T            | T        | 1        |          | 57         |          |          |          | _        | _  | _        | 4  | -              |          | Н  |          |          | 108        | +-        | ╁  | 十           | ╁       | +  | 十        | 1          | †        | $\vdash$ |          |
| 17           | 8        | -   | 0        | +            | Н        | H            | +            | 1-           | ╅                  | T            | T        | 1        |          | 58         |          |          | 4        | _        | _  | -        |  | -              | -        | $\vdash\dashv$                                   |          |          | 109        | 十         | ╁  | +           | ╁       | 十  | 十        | 1          | 1        |          | 1        |
| 4            | 9        | -   | Ö        | $\vdash$     | H        | T            | 1            | $\top$       | 1                  |              | Τ        | ]        |          | 59         |          |          | _        | -        |  | {        |  | -+             | -        | $\vdash$   |          |          | 110        | 十         | +-   | 1           | T       | $\top$   | $\top$   | T          | T        | L        | ]        |
| 1            | 10       | -   | 0        | H            | ††       | ţ-           | 1            |              |                    | L            |          |          | L        | 60         |          |          |          |          |  |          | -  | -+             |          | H  |          |          | 111        | 十         | 1.   | 1           | 1       | 1  | 1        | T          | T        | L        | ]        |
| . K          | 11       | -   | 6        | П            |          | 7            | 1            |              | I                  | $\perp$      | L        | _        | L        | 61         |          |          |          |          |  | -        |  | -              | -        | H  |          |          | 112        | +         | 1  | 1           | T       | $\perp$  | $\perp$  | $\perp$    | $\perp$  | 上        |          |
| 1            | 12       |     | 0        | 2            | V        |              | I            | $oxed{\Box}$ | $\perp$            | $\perp$      |          | 4        | <br> -   | 62         |          | -        | H        |          | $\vdash$   | $\dashv$ | -  | -              | _        | 1  |          |          | 113        | _         |  |             | Ι       | $\perp$  | $\perp$  | $\perp$    |          | 1_       | -        |
| . T          | 13       |     |          |              |          | L            | I            | $\perp$      | 1                  | $\downarrow$ | 4        | 4        | -        | 63         |          | -        | Ι-       | -        | Н  | -        | -  |                | _        | Ι-   | 1        |          | 114        |           | $\perp$  | I           | I       | $\perp$  | $\perp$  | 丄          | 4-       | 4-       | 4        |
| . F          | 14       |     | E        |              |          |              | $\perp$      | 1            | $\perp$            | _            | 4        | 4        | $\vdash$ | 64<br>65   | _        |          | -        | -        | -  | ⊢        | -  | $\vdash$       | _        | T -  | 1        |          | 115        | T         |  |             | $\perp$ | 1  | 4        | _          | 4-       | +-       | 4        |
| " <u> </u> - | 15       |     |          | L            | L        | L            | 1            | 1            | 1                  |              | 4        | 4        | $\vdash$ | 66         |          | -        | -        | -        | $\vdash$   | -        | ┌╴   | $  \cdot  $    | _        | T  | 1        |          | 116        |           | $\perp$  | $\Gamma$    | 1       |  | 4        | $\bot$     | 4        | +-       | ┤ ∶      |
|              | 16       | 1   | L        |              | $\perp$  | 1            | 4            | 4            | +                  | +            |          | 4        | -        | 67         |          | ╁        | $\vdash$ | +        | +  |          | $\vdash$   | Н              |          |  | 1        |          | 117        | $\Box$    | $\perp$  | 1           | 1       | _  | 4        | -          | +        | +        | -  ;     |
|              | 17       |     | Ĺ        | $\perp$      | 1        | 1-           | 4            | +            | +                  | +            | +        | $\dashv$ | -        | 68         | _        | +        | $\vdash$ | $\vdash$ | 1  |          | $\Box$   |                |          |  | ]        |          | 118        |           |  | $\perp$     | 1       | 4  | 4        |            | +        | ╀        | ┤ ˈ      |
|              | 18       | _   | ┦-       | $\perp$      | ╀        | +            | 4            |              |                    | +            | -+       | $\dashv$ | -        | 69         | -        | ╁╌       | $t^-$    | ╁        | 1  | <u> </u> | T  |                |          | Π  | 1        |          | 119        | _         | _  | 4           | 4       | $\dashv$   | $\dashv$ | 4          | -        | +-       |          |
|              | 19       | L   | 1        | 1            | 4        | 1            | $\perp$      | +            |                    | -            | +        | -        | H        | 70         |          | ╁╌       | ╁╴       | ╁        | 1  | $\vdash$ |  |                |          | Τ  | 7        |          | 120        |           |  | ᆚ           | 1       | 4  | _        | 4          | 4-       | 4        | -        |
|              | 20       | ŀ   | $\perp$  | L            | $\perp$  | ┸            | 4            | _            | 4                  | 4            | -+       | $\dashv$ | -        | 7          |          | +-       | ╀        | ╁╴       | 十  | ┢        | <del>                                     </del> | $\vdash$       | Γ        | Τ  | 1        |          | 121        |           | $\perp$  | _           | 4       | 4  | 4        | -          | 4        | +        | -{       |
|              | 2        | 1   |          | L            | 1        | 4            | $\perp$      |              | -+                 | 4            | ᅪ        | 4        | -        | 7          | _+_      | +        | +-       | +-       | $\dagger$  | T        | T  | 1              | 1        |  | ]        |          | 122        | _         | 4  | _           | 4       | 4  | $\dashv$ | +          | +        | +        | -        |
|              | 22       |     |          | 1            | 4        | 4            | -            | $\dashv$     | -                  | -            | -        | $\dashv$ | +        | 7          |          | ╅╴       | 十        | t        | +  | T        |  |                |          |  | ]        | L        | 123        | $\dashv$  | _  | _‡          | 4       | -  | $\dashv$ |            | +        | +        | -        |
|              | 2        |     | 1        | 1            | 4        | 4            | -+           | $\dashv$     | -+                 | -1           |          | $\dashv$ | ŀ        |            | 4        | 1        | t        | T        | +  | T        | $\top$   |                |          | $\mathbb{I}_{-}$                                 |          | L        | 124        | $\square$ | _  | -           | -       | $\dashv$   | $\dashv$ | +          | +        | ╁        | -        |
| L            | 2        |     | 4        | +            | -        | +            | +            | +            | -                  | $\dashv$     | ┪        | $\dashv$ | t        |            | 5        | 1        | $\top$   | T        | 1  | Τ        |  | L              | L        |  | 4        | L        | 125        | Щ         | }  | +           | +       | -+   |          | $\dashv$   | -+       | +        | $\dashv$ |
| L            | 2        |     | - -      | 4            | +        | +            | -            | $\dashv$     | -+                 |              | -        | $\dashv$ | f        |            | 6        | ┪        | T        | Τ        | 7  | 1        |  |                | L        | 1_   | _        | L        | 126        | -         | -  | -+          | -       | $\dashv$   | $\dashv$ | $-\dagger$ | +        | +        | ┥        |
| L            | 2        |     |          | +            | +        | +            | -+           |              | $\dashv$           |              | -        | $\dashv$ | t        |            | 7        | _        | 1        | Τ        |  | 1        |  |                | L        |  | 4        | L        | 127        | $\vdash$  | $\dashv$   | <b>-</b>  - | -       | -  | -        | $\dashv$   | $\dashv$ | +        | 4        |
| L            | 2        |     |          | +            | -        | +            | -+           | $\dashv$     | $\dashv$           | -            | $\vdash$ | ᅱ        | İ        | 7          | 8        | ┪        | Τ        | $\perp$  | $\mathbb{L}$                                     |          | 1_   | ┸              | ļ        | _  | 4        | ŀ        | 128        |           |  |             | -       | $\vdash$   | $\dashv$ | -          | 十        | 十        | -        |
|              | 2        | _   | +        | +            | +        | +            | -            | -+           | $\dashv$           | _            |          | $\neg$   | Ì        | 7          | 9        |          |          |          |  | L        | 1  | ┸              | Ļ        | 4  | 4        | $\vdash$ | 129        |           | $\vdash$   | $\dashv$    | -       | $\vdash \dashv$                                  | $\dashv$ | $\vdash$   | 十        | 十        | 7        |
| -            |          | 9   | +        | +            | $\dashv$ | -            | -1           |              |                    | _            | -        | $\neg$   | Ì        | 7          | 30       |          |          |          |  | _        | 4_   | _              | 1        | _  | -        | -        | 130        | _         | $\vdash$   | -+          | _       | $\vdash$   |          | H          | 一        | 十        | 7        |
| -            |          | 30  | +        | +            | -+       | $\dashv$     | -            |              | Н                  | 一            | H        | П        |          | 7          | B1       | $\perp$  | $\perp$  | $\perp$  |  | 1        | 1  | 1              | 4-       | - -  | -        | -        | 13<br>13   |           | -  | -           | _       | $\vdash$   | $\vdash$ | $\vdash$   | $\dashv$ | 7        | 7        |
| -  -         |          | 32  | +        | +            | +        | -            | -            |              |                    | r            | ✝        |          |          |            | 32       |          | $\perp$  | _        | _ _  | 1        | 1  | 4              | 4-       |  | 4        | ŀ        | 13         |           | $\vdash$   | -           | _       | $\vdash$   | Г        | $\vdash$   | $\neg$   | 十        | 7        |
| - }          |          | 33  | +        | -+           | +        | -            |              |              | -                  |              | †        |          |          |            | 33       | 1        | _        | 4        |  | $\perp$  |  | - -            | -        | -  | 4        | +        | 13         |           | $\vdash$   |             | _       | <del>                                     </del> | Г        | Н          | $\Box$   | 寸        | 7        |
| }            |          | 34  | +        | $\dashv$     | -†       | -            | -            | -            | T                  | Τ            | Τ        |          |          |            | 84       | $\perp$  | 4        | 4        | _  | 4        | 4  | +              | +        |  | $\dashv$ | -        | 13         |           | $\vdash$   | $\vdash$    |         | 1  | Г        | Н          | $\sqcap$ |          |          |
| .            |          | 35  | $\dashv$ | -            | -        | -            |              |              | Γ                  | Γ            |          |          |          |            | 85       | _        | 4        | 4        | 4  |          | +  | +              | +        | +  | -        | +        | 13         |           | <del>                                     </del> | $\vdash$    |         | $\vdash$   | Г        | П          |          |          |          |
| 1            |          | 36  | -+       | -1           | -        |              |              |              | Γ                  |              | Γ        |          |          | 1          | 86       | _        | -        | 4        | -  | +        | +  | +              | +        | +  | $\dashv$ | ŀ        | 13         |           | t  |             |         | $\top$   | Г        |            |          |          |          |
|              |          | 37  | $\dashv$ | -            | $\neg$   |              |              |              | Ι                  |              |          |          |          |            | 87       | 4        | -        | +        | -  | +        | +  | +              | +        | -+   | $\dashv$ | H        | 13         |           | $\vdash$   | Н           | Т       |  | Γ        |            |          |          |          |
|              |          | 38  | $\dashv$ | -            | _        |              |              |              |                    |              | _        | 1        | 1        |            | 88       | -        | 4        | +        | $\dashv$   | +        | +  | +              | +        | $\dashv$   | $\dashv$ | <b> </b> | 13         | _         | $\top$   | Γ           | Г       | 1  | $\Box$   | oxdot      |          | Ш        |          |
|              |          | 39  | $\vdash$ |              |          |              |              |              | L                  | L            | L        | <u> </u> | 1        | $\square$  | 89       | -+       | 4        | $\dashv$ | $\dashv$   | +        | +  | <del>-</del> - | +        | +  | $\dashv$ | ŀ        | 14         | _         | $\top$   |             | Г       | T  | Γ        |            |          | $\Box$   |          |
|              | $\vdash$ | 40  | П        | <u> </u>     | Γ        |              | Γ            |              | L                  | L            |          | $\perp$  | 1        | Ш          | 90       | -        | _+       | 4        | 4  | -        | +  | -+             | $\dashv$ | +  | $\dashv$ | ŀ        | 1,         |           | $\dagger$  | 1           | Г       | T  | T        | Τ          |          | $\Box$   |          |
|              | H        | 41  | H        | _            |          | Γ            |              | T            | Ι                  |              |          |          | 1        | $\square$  | 91       | _        | 4        | 4        | _  | -        | +  | -+             |          | $\dashv$   | $\dashv$ | ŀ        |            | 12        | +  | 1           | 1       | +  | T        |            | $\Box$   |          | Ц        |
|              | $\vdash$ | 42  |          |              | 7        |              | Ι            | $\prod$      | $oxed{\mathbb{L}}$ |              |          | 1        | 1        | <u> </u>   | 92       |          | 4        | -        | -+   | +        | $\dashv$   | +              | -        | $\vdash \vdash$                                  | ㅓ        | ŀ        |            | 43        | $\top$   | $\top$      | 1       | T  | I        | L          |          | <u> </u> | Н        |
|              |          | 43  | Τ        | Г            | Γ        |              | Ι            | L            | L                  |              | _        | 1        | 4        | <u></u>    | 93       | $\dashv$ | -        |          | -+   | -+       | $\dashv$   | -              | $\dashv$ | $\vdash$   | $\dashv$ | 1        |            | 44        | $\top$   | $\top$      | Γ       | T  | Ι        | $\perp$    | $\perp$  | 1        | Ш        |
|              | 一        | 44  | -        | Г            | Γ        |              | Ι            |              |                    |              | $\perp$  | 1        | 4        | <u> </u>   | 94       | $\vdash$ |          |          |  | +        | $\dashv$   | -              |          | $\vdash$   | $\dashv$ |          |            | 45        | +  | 1           | Ι       |  | I        | $\perp$    | $\perp$  | ╄-       | Ш        |
|              | -        | 45  | -        |              | 1        | Ι            | $oxed{\Box}$ |              | I                  | 1            | 1        | 4        | 4        | -          | 95       | $\vdash$ | _        | 4        |  | -        | +  | -+             | _        | $\vdash$   | H        |          |            | 46        |  | T           |         |  | $\perp$  |            | 1        | 丄        | $\sqcup$ |
|              | $\vdash$ | 46  | -        | Γ            | T        | I            |              |              | $\perp$            | $\perp$      | $\perp$  | 4-       | 4        | $\vdash$   | 96       | -        |          | -        | <del>                                     </del> | $\dashv$ | $\dashv$   |                | _        | H  | Н        |          |            | 47        | 1  | T           | Γ       | $\perp$  |          |            | $\perp$  | $\perp$  | $\sqcup$ |
|              |          | 47  |          |              |          | $\mathbb{I}$ | $\perp$      |              | $\perp$            | $\perp$      | _ _      | +        | 4        | -          | 97<br>98 | -        | -        |          |  | -        | -  | $\dashv$       | _        | <del>                                     </del> | $\vdash$ |          | Ti         | 48        |  | T           | I       |  | $\perp$  | 1          | 4        | 4        | $\dashv$ |
|              |          | 48  | Ī        |              |          | L            |              | 1            | 1                  | 4            | _        | 4-       | 4        | $\vdash$   | 98       | -        | -        | $\vdash$ | H  | $\vdash$ | -  |                | _        | 1-   | -        |          |            | 49        |  | L           | Ĺ       | $\perp$  | _        | _          | 4-       | +        | $\dashv$ |
|              |          | 49  |          |              | L        | 1            | 4            | 4            | 4                  | 4            | +        | +        | -        | -          | 100      | -        | -        | -        |  | Н        | $\neg$   |                | _        |  |          |          |            | 50        | $\perp$  |             | 1       |  | 上        |            |          |          | لسل      |
|              |          | 50  | 1        | ١_           | 1_       |              | _            |              | l_                 |              | L_       |          |          | <u> </u>   | 1:54     |          |          |          |  |          |  |                |          |  |          |          |            |           |  |             |         |  |          |            |          |          |          |
|              |          |     |          |              |          |              |              |              |                    |              |          |          |          |            |          |          |          |          |  |          |  |                |          |  |          |          |            |           |  |             |         |  |          |            |          |          |          |

If more than 159 claims or 10 actions staple additional sheet here